

STREAMBANK AND SHORELINE PROTECTION

Design Survey

The following information shall be obtained and recorded in the field notes:

- a. Topographic details of area (cross-sections, random topographic survey with key elevations and measurements).
- b. Location and extent of trees, willows, etc.
- c. Length of section to be protected.
- d. Soil classification.
- e. Maximum apparent high-water line elevation.

Design Data

The following will be considered minimum in the design of streambank or shoreline protection. The information shall be recorded in the design notes.

- a. Streambank - stream flow records (if available).
- b. Shoreline - mean high water line (if available).
- c. Protection requirements.
- d. Method of protection.
- e. Records indicating NRCS obligations regarding State and Federal regulations have been met including wetland and flood plain regulations. Quantity and quality of materials.

Drawings and Specifications

The construction drawings shall include, but will not be limited to the following:

- a. Overall plan view project.
- b. Typical cross-section of protection.
- c. Location and details of appurtenances, such as culverts.
- d. Source of materials.
- e. Table of quantities.
- f. Location map.

Practice specifications along with applicable "Items of Work and Construction Details" shall be provided for each item or phase of construction.

Layout Survey Notes

The following information shall be recorded in the field note:

- a. Extent of area to be treated.
- b. Necessary cut or fill stakes.
- c. Location stake for appurtenant structures.

Compliance Checks

The following information shall be recorded in the field notes:

- a. Length of area protected.
- b. Cross-section of area protected.
- c. Size and thickness of rock and thickness of bedding (for riprap).
- d. Number, size, and spacing of jetties, trees, cribs, etc.
- e. Statement of compliance.

As-Built Plans

As-Built plans shall be prepared for all streambank and shoreline protection projects. The plans shall reflect all significant changes in measurements and quantities. If there were no changes, the original drawings shall be marked "As-Built".